

**Abstract**

Systems and methods for determining the coronary sinus vein branch location of a left ventricle electrode are disclosed. The systems and methods involve detecting the occurrence of electrical events within the patient's heart including sensing one or  
5 more of the electrical events with the electrode and then analyzing the electrical events to determine the electrode's position. The determination of electrode position may be used to automatically adjust operating parameters of a VRT device. Furthermore, the determination of electrode position may be made in real-time during installation of the electrode and a visual indication of the electrode position may be  
10 provided on a display screen.